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APPENDIX B

FIVE-YEAR REVIEW INSPECTION CHECK LISTS

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the five-year review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INFORMATION	
Site name: Site 2 Area A Landfill	Date of inspection: April 10, 2001
Location and Region: New London County,	EPA ID: CTD980906515
Agency, office or company leading the five-year review: EPA Region I	Weather/temperature: Overcast, 50 degrees

Remedy Includes (Check all that apply)
- ☒ Landfill cover/containment
- ☐ Groundwater pump and treatment
- ☐ Surface water collection and treatment
- ☒ Other Landfill gas controls, surface controls to minimize erosion, institutional controls.

☐ Inspection team roster attached ☐ Site map attached

II. INTERVIEWS (Check all that apply)

1. O&M site manager Richard Conant (Name) Environmenal Dept (Title) 4/10/01 (Date)
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached Better house keeping measures are needed; O&M plan should be developed and implemented.

2. O&M staff _____ (Name) _____ (Title) _____ (Date)
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency USEPA Region I
Contact K. Keckler (Name) RPM (Title) 4/10/01 (Date) (617)918-1385 (Phone no.)
Problems; suggestions; ☐ Report attached None provided during inspection.

Agency CTDEP
Contact Mark Lewis (Name) RPM (Title) 4/10/01 (Date) (860)424-3768 (Phone no.)
Problems; suggestions; ☐ Report attached None provided during inspection.

Agency _____
Contact _____ (Name) _____ (Title) _____ (Date) _____ (Phone no.)
Problems; suggestions; ☐ Report attached _____

Agency _____
Contact _____ (Name) _____ (Title) _____ (Date) _____ (Phone no.)
Problems; suggestions; ☐ Report attached _____

4. Other interviews (optional) ☐ Report attached.

III. ONSITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Manual and As-Builts** ☐ Readily available ☐ Up to date ☐ N/A
   ☐ As-builts ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Maintenance Logs ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

2. **Site Specific Health and Safety Plan** ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Contingency plan/emergency response plan ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

3. **O&M and OSHA Training Records** ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

4. **Permits and Service Agreements**
   ☐ Air discharge permit ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Effluent discharge ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Waste disposal, POTW ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Other permits_____ ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

5. **Gas Generation Records** ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

6. **Settlement Monument Records** ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

7. **Groundwater Monitoring Records** ☒ Readily available ☐ Up to date ☐ N/A
   Remarks Quarterly sampling ongoing at site.

8. **Leachate Extraction Records** ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

9. **Discharge Compliance Records**
   ☐ Air ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Water (effluent) ☐ Readily available ☐ Up to date ☐ N/A
   Remarks_____

10. **Daily Access/Security Logs**
☐ Readily available ☐ Up to date ☐ N/A
Remarks_____

IV. O&M COSTS

1. **O&M Organization**
☐ State in-house ☐ Contractor for State
☐ PRP in-house ☐ Contractor for PRP
☐ Other _____

2. **O&M Cost Records**
☐ Readily available ☐ Up to date
☐ Funding mechanism/agreement in place
Original O&M cost estimate_____ ☐ Breakdown attached

Total annual cost by year for review period if available

From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost

3. **Unanticipated or Unusually High O&M Costs During Review Period**
Describe costs and reasons: Groundwater monitoring costs for 1 year (1999 - 2000), 4 quarters, are approximately $210,000.00. This cost includes sampling, analysis, data validation, and reporting.

V. GENERAL SITE CONDITIONS

Whenever possible, actual site conditions should be documented with photographs.

A. Fencing

1. **Fencing damaged** ☐ Location shown on site map ☐ Gates secured ☐ N/A
Remarks Fencing around a portion of site, but gates are left open. No restrictions.

B. Site Access

1. Access restrictions, signs, other security measures ☐ Location shown on map ☐ N/A
   Remarks. Perimeter fencing, but gates left open and military personnel can access site. Signs posted at entrances limiting access to authorized users and instructing no one to dig at the site because of the presence of a cap.

C. Perimeter Roads

1. Roads damaged ☐ Location shown on site map ☒ Roads adequate ☐ N/A
   Remarks_____

D. General

1. Vandalism/trespassing ☐ Location shown on site map ☒ No vandalism evident
   Remarks_____

2. Land use changes onsite ☒ N/A
   Remarks No changes

3. Land use changes offsite ☒ N/A
   Remarks No changes.

4. Institutional controls (site conditions imply institutional controls not being enforced) ☐ N/A
   Agency _____
   Contact _____ _____ _____ _____
   Name Title Date Phone no.
   Problems; suggestions; ☐ Report attached _____

VI. LANDFILL COVERS ☒ Applicable ☐ Not applicable

A. Landfill Surface

1. Settlement (Low spots) ☒ Location shown on site map ☐ Settlement not evident
   Areal extent_____ Depth_____
   Remarks_____

2. Cracks ☒ Location shown on site map ☐ Cracking not evident
   Lengths_____ Widths_____ Depths_____
   Remarks_____

3. **Erosion** ☐ Location shown on site map ☒ Erosion not evident
Areal extent_____ Depth_____
Remarks_____

4. **Holes** ☒ Location shown on site map ☐ Holes not evident
Areal extent Sporadic Depth 4 inches
Remarks Holes due to equipment storage on asphalt.

5. **Vegetative Cover** ☐ Grass ☐ Cover properly established ☒ No signs of stress
☐ Trees/Shrubs (indicate size and locations on a diagram)
Remarks None of the landfill has a vegetative cover.

6. **Alternative Cover (armored rock, concrete, etc.)** ☐ N/A
Remarks Asphalt cover shows some cracks and holes due to storage use.

7. **Bulges** ☐ Location shown on site map ☐ Bulges not evident
Areal extent_____ Height_____
Remarks_____

8. **Wet Areas/Water Damage** ☒ Wet areas/water damage not evident
☐ Wet areas ☐ Location shown on site map Areal extent_____
☐ Ponding ☐ Location shown on site map Areal extent_____
☐ Seeps ☐ Location shown on site map Areal extent_____
☐ Soft subgrade ☐ Location shown on site map Areal extent_____
Remarks_____

9. **Slope Instability** ☐ Slides ☐ Location shown on site map ☒ No evidence of slope instability
Areal extent_____
Remarks_____

B. **Benches** ☐ Applicable ☒ Not applicable
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** ☐ Location shown on site map ☒ N/A or okay
Remarks_____

2. **Bench Breached** ☐ Location shown on site map ☒ N/A or okay
Remarks_____

3. **Bench Overtopped** ☐ Location shown on site map ☒ N/A or okay
Remarks_____

C. **Letdown Channels** ☐ Applicable ☒ Not applicable
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** ☐ Location shown on site map ☐ No evidence of settlement
Areal extent_____ Depth_____
Remarks_____

2. **Material Degradation** ☐ Location shown on site map
☐ No evidence of degradation
Material type_____ Areal extent_____
Remarks_____

3. **Erosion** ☐ Location shown on site map ☐ No evidence of erosion
Areal extent_____ Depth_____
Remarks_____

4. **Undercutting** ☐ Location shown on site map ☐ No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ ☐ No obstructions
☐ Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
☐ No evidence of excessive growth
☐ Vegetation in channels does not obstruct flow
☐ Location shown on site map Areal extent_____
Remarks_____

D. Cover Penetrations ☒ Applicable ☐ Not applicable

1. **Gas Vents** ☐ Active ☒ Passive ☐ Properly secured/locked ☒ Functioning
☐ Routinely sampled ☒ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration
☐ N/A
Remarks Vents are not monitored and were only visually inspected.

2. **Gas Monitoring Probes** ☐ Properly secured/locked ☐ Functioning
☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration
☐ N/A
Remarks

3. **Monitoring Wells** (within surface area of landfill) ☒ Properly secured/locked
☐ Functioning ☒ Routinely sampled ☐ Good condition ☐ Needs O&M
☐ Evidence of leakage at penetration ☐ N/A
Remarks Wells used for monitoring in good shape; other site wells in need of repair or abandonment. See photograph.

4. **Leachate Extraction Wells** ☐ Properly secured/locked ☐ Functioning ☐ Needs O&M
☐ Routinely sampled ☐ Good condition
☐ Evidence of leakage at penetration ☒ N/A
Remarks

5. **Settlement Monuments** ☐ Located ☐ Routinely surveyed ☒ N/A
Remarks No monuments were installed.

E. Gas Collection and Treatment

1. **Gas Treatment Facilities**
☐ Flaring ☐ Thermal destruction ☐ Collection for reuse
☐ Good condition ☐ Needs O&M
Remarks

2. **Gas Collection Wells, Manifolds and Piping**
☒ Good condition ☐ Needs O&M
Remarks Visually inspected.

F. Cover Drainage Layer ☒ Applicable ☐ Not applicable

1. **Outlet Pipes Inspected** ☐ Functioning ☐ N/A
Remarks Not able to inspect.

2. **Outlet Rock Inspected** ☐ Functioning ☐ N/A
Remarks Not able to inspect.

G. **Detention/Sedimentation Ponds** ☐ Applicable ☒ Not applicable

1. **Siltation** Areal extent____ Depth____ ☐ N/A
☐ Siltation not evident
Remarks____

2. **Erosion** Areal extent____ Depth____
☐ Erosion not evident
Remarks____

3. **Outlet Works** ☐ Functioning ☐ N/A
Remarks____

4. **Dam** ☐ Functioning ☐ N/A
Remarks____

H. **Retaining Walls** ☐ Applicable ☒ Not applicable

1. **Deformations** ☐ Location shown on site map ☐ Deformation not evident
Horizontal displacement____ Vertical displacement____
Rotational displacement____
Remarks____

2. **Degradation** ☐ Location shown on site map ☐ Degradation not evident
Remarks____

I. **Perimeter Ditches/Off-Site Discharge** ☒ Applicable ☐ Not applicable

1. **Siltation** ☒ Location shown on site map ☐ Siltation not evident
Areal extent____ Depth Volume = 2 cy
Remarks Fines pushed over embankment from salt storage shed.
Silt/sand buildup at endwall of culvert for northern channel.

2. **Vegetative Growth** ☒ Location shown on site map ☐ N/A
☐ Vegetation does not impede flow
Areal extent____ Type____
Remarks Phragmites growing in channels

3. **Erosion** ☐ Location shown on site map ☒ Erosion not evident
Areal extent_____ Depth_____
Remarks_____

4. **Discharge Structure** ☐ Functioning ☒ N/A
Remarks_____

VII. VERTICAL BARRIER WALLS ☐ Applicable ☒ Not applicable

1. **Settlement** ☐ Location shown on site map ☐ Settlement not evident
Areal extent_____ Depth_____
Remarks_____

2. **Performance Monitoring** Type of monitoring_____
☐ Performance not monitored
Frequency_____ ☐ Evidence of breaching
Remarks_____

VIII. GROUNDWATER/SURFACE WATER REMEDIES ☐ Applicable ☒ Not applicable

A. **Groundwater Extraction Wells, Pumps, and Pipelines**
☐ Applicable ☒ Not applicable

1. **Pumps, Wellhead Plumbing, and Electrical**
☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A
Remarks_____

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition ☐ Needs O&M
Remarks_____

B. **Surface Water Collection Structures, Pumps, and Pipelines**
☐ Applicable ☒ Not applicable

1. **Collection Structures, Pumps, and Electrical**
☐ Good condition ☐ Needs O&M
Remarks_____

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition ☐ Needs O&M
Remarks_____

C. **Treatment System** ☐ Applicable ☒ Not applicable

1. **Treatment Train** (Check components that apply)
☐ Metals removal ☐ Oil/water separation ☐ Bioremediation
☐ Air stripping ☐ Carbon adsorbers
☐ Filters_____ ☐ Others_____
☐ Good condition ☐ Needs O&M
☐ Sampling ports properly marked and functional
☐ Sampling/maintenance log displayed and up to date
☐ Equipment properly identified
☐ Quantity of groundwater treated annually_____
☐ Quantity of surface water treated annually_____
Remarks_____

2. **Electrical Enclosures and Panels** (properly rated and functional) ☐ N/A
☐ Good condition ☐ Needs O&M
Remarks_____

3. **Tanks, Vaults, Storage Vessels** ☐ N/A
☐ Good condition ☐ Proper secondary containment ☐ Needs O&M
Remarks_____

4. **Discharge Structure and Appurtenances** ☐ N/A
☐ Good condition ☐ Needs O&M
Remarks_____

5. **Treatment Building(s)** ☐ N/A
☐ Good condition ☐ Needs repair
☐ Chemicals and equipment properly stored
Remarks_____

6.	**Monitoring Wells** (pump and treatment remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A Remarks_____
D.	**Monitored Natural Attenuation**
1.	**Monitoring Wells** (natural attenuation remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A Remarks_____

IX. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

X. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

Based on the site inspection, the engineered cap is effective at eliminating direct exposure to the landfill contents. The groundwater monitoring results will be reviewed to determine if it is effective in minimizing contaminant migration from the site. Gas vents appear to be functioning properly. Drainage channels installed upgradient of landfill are functioning, but not at full capacity.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

The site inspection revealed that O&M is not being completed at the site. An O&M plan should be written and implemented. 1. There is a siltation problem with the northern drainage channel and a vegetation problem. 2. Small trees are beginning to grow in rip-rap along the toe of landfill. 3. Equipment is being improperly stored on top of the landfill cap, which may eventually damage it. 4. Small depression noted on toe of landfill at south west end. Appears that excessive surface water runoff may pass through area which is causing erosion of material under rip-rap.

C. Early Indicators of Potential Remedy Failure

Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future.

Continued lack of O&M may jeapordize integrity of engineered cap. An O&M plan should be written and implemented. The plan should discuss appropriate methods and materials that can be stored on the cap.

D. Opportunities for Optimization

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

Reduce monitoring frequency and parameter list when applicable.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the five-year review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INFORMATION

Site name: Site 6 - DRMO	Date of inspection: April 11, 2001
Location and Region: New London County, CT	EPA ID: CTD980906515
Agency, office or company leading the five-year review: EPA Region I	Weather/temperature: Sunny, Low 50 degrees

Remedy Includes (Check all that apply)
- ☒ Landfill cover/containment
- ☐ Groundwater pump and treatment
- ☐ Surface water collection and treatment
- ☒ Other Institutional controls, groundwater monitoring

☒ Inspection team roster attached ☒ Site map attached

II. INTERVIEWS (Check all that apply)

1. O&M site manager Richard Conant (Name) _____ (Title) 4/11/01 (Date)
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. (860) 694-5176
   Problems, suggestions; ☐ Report attached Monitoring well O & M

2. O&M staff _____ (Name) _____ (Title) _____ (Date)
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency USEPA Region I
Contact K. Keckler (Name) RPM (Title) 4/11/01 (Date) (617)918-1385 (Phone no.)
Problems; suggestions: ☐ Report attached Did not attend inspection.

Agency CTDEP
Contact Mark Lewis (Name) RPM (Title) 4/11/01 (Date) (860)424-3768 (Phone no.)
Problems; suggestions; ☐ Report attached None provided during inspection.

Agency _____
Contact _____ (Name) _____ (Title) _____ (Date) _____ (Phone no.)
Problems; suggestions; ☐ Report attached _____

Agency _____
Contact _____ (Name) _____ (Title) _____ (Date) _____ (Phone no.)
Problems; suggestions; ☐ Report attached _____

4. Other interviews (optional) ☐ Report attached.

III. ONSITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Manual and As-Builts** ☐ Readily available ☐ Up to date ☐ N/A
   ☐ As-builts ☐ Readily available ☐ Up to date ☐ N/A
   ☐ Maintenance Logs ☐ Readily available ☐ Up to date ☐ N/A
   Remarks Information not verified during inspection.

2. **Site Specific Health and Safety Plan** ☒ Readily available ☐ Up to date ☐ N/A
   ☐ Contingency plan/emergency response plan ☐ Readily available ☐ Up to date ☐ N/A
   Remarks Field personnel follow plan when conducting groundwater monitoring.

3. **O&M and OSHA Training Records** ☐ Readily available ☐ Up to date ☐ N/A
   Remarks No O & M records. OSHA training records maintained by Navy's contractor.

4. **Permits and Service Agreements**
   ☐ Air discharge permit ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Effluent discharge ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Waste disposal, POTW ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Other permits _____ ☐ Readily available ☐ Up to date ☐ N/A
   Remarks _____

5. **Gas Generation Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks _____

6. **Settlement Monument Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks _____

7. **Groundwater Monitoring Records** ☒ Readily available ☒ Up to date ☐ N/A
   Remarks Quarterly reports are issued by Navy.

8. **Leachate Extraction Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks _____

9. **Discharge Compliance Records**
   ☐ Air ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Water (effluent) ☐ Readily available ☐ Up to date ☒ N/A
   Remarks _____

10. **Daily Access/Security Logs**
☐ Readily available ☐ Up to date ☐ N/A
Remarks DRMO (Site 6) is a secure area. Visitors sign in and out.

IV. O&M COSTS

1. **O&M Organization**
☐ State in-house ☐ Contractor for State
☐ PRP in-house ☒ Contractor for PRP
☐ Other _____

2. **O&M Cost Records**
☐ Readily available ☐ Up to date
☐ Funding mechanism/agreement in place
Original O&M cost estimate _____ ☐ Breakdown attached

Total annual cost by year for review period if available

From _____ To _____ (Dates) _____ (Total cost) ☐ Breakdown attached
From _____ To _____ (Dates) _____ (Total cost) ☐ Breakdown attached
From _____ To _____ (Dates) _____ (Total cost) ☐ Breakdown attached
From _____ To _____ (Dates) _____ (Total cost) ☐ Breakdown attached
From _____ To _____ (Dates) _____ (Total cost) ☐ Breakdown attached

3. **Unanticipated or Unusually High O&M Costs During Review Period**
Describe costs and reasons: No O & M has been completed at the site. Costs for groundwater monitoring for 1 year (4 quarters) have been approximately $120,000.00. This cost includes field work, analysis data validation, and reporting.

V. GENERAL SITE CONDITIONS

Whenever possible, actual site conditions should be documented with photographs.

A. Fencing

1. Fencing damaged ☐ Location shown on site map ☒ Gates secured ☐ N/A
Remarks _____

B. Site Access

1. Access restrictions, signs, other security measures ☒ Location shown on map ☐ N/A
Remarks: Restrictions, signs and fence in place.

C. Perimeter Roads

1. Roads damaged ☐ Location shown on site map ☐ Roads adequate ☒ N/A
Remarks

D. General

1. Vandalism/trespassing ☐ Location shown on site map ☒ No vandalism evident
Remarks

2. Land use changes onsite ☒ N/A
Remarks

3. Land use changes offsite ☒ N/A
Remarks

4. Institutional controls (site conditions imply institutional controls not being enforced) ☐ N/A
Agency
Contact _____ _____ _____ _____
Name Title Date Phone no.
Problems; suggestions: ☐ Report attached SOPA (Admin) New London Instruction 309018 - Site use restrictions (October 2000).

VI. LANDFILL COVERS ☒ Applicable ☐ Not applicable

A. Landfill Surface

1. Settlement (Low spots) ☒ Location shown on site map ☐ Settlement not evident
Areal extent _____ Depth _____
Remarks Possible area of settlement at southwest corner of Building 491. Approximately 60 to 50 feet from building.

2. Cracks ☐ Location shown on site map ☒ Cracking not evident
Lengths _____ Widths _____ Depths _____
Remarks

3. **Erosion** ☐ Location shown on site map ☒ Erosion not evident
Areal extent_____ Depth_____
Remarks_____

4. **Holes** ☐ Location shown on site map ☒ Holes not evident
Areal extent_____ Depth_____
Remarks_____

5. **Vegetative Cover** ☐ Grass ☐ Cover properly established ☐ No signs of stress
☐ Trees/Shrubs (indicate size and locations on a diagram)
Remarks N/A

6. **Alternative Cover (armored rock, concrete, etc.)** ☐ N/A
Remarks Asphalt covers clay cap.

7. **Bulges** ☐ Location shown on site map ☒ Bulges not evident
Areal extent_____ Height_____
Remarks_____

8. **Wet Areas/Water Damage** ☒ Wet areas/water damage not evident
☐ Wet areas ☐ Location shown on site map Areal extent_____
☐ Ponding ☐ Location shown on site map Areal extent_____
☐ Seeps ☐ Location shown on site map Areal extent_____
☐ Soft subgrade ☐ Location shown on site map Areal extent_____
Remarks_____

9. **Slope Instability** ☐ Slides ☐ Location shown on site map ☒ No evidence of slope instability
Areal extent_____
Remarks_____

B. **Benches** ☐ Applicable ☐ Not applicable
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** ☐ Location shown on site map ☒ N/A or okay
Remarks_____

2. **Bench Breached** ☐ Location shown on site map ☒ N/A or okay
Remarks_____

3. **Bench Overtopped** ☐ Location shown on site map ☒ N/A or okay
Remarks_____

C. **Letdown Channels** ☐ Applicable ☒ Not applicable
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** ☐ Location shown on site map ☐ No evidence of settlement
Areal extent_____ Depth_____
Remarks_____

2. **Material Degradation** ☐ Location shown on site map
☐ No evidence of degradation
Material type_____ Areal extent_____
Remarks_____

3. **Erosion** ☐ Location shown on site map ☐ No evidence of erosion
Areal extent_____ Depth_____
Remarks_____

4. **Undercutting** ☐ Location shown on site map ☐ No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ ☐ No obstructions
☐ Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
☐ No evidence of excessive growth
☐ Vegetation in channels does not obstruct flow
☐ Location shown on site map Areal extent_____
Remarks_____

D. Cover Penetrations ☒ Applicable ☐ Not applicable

1. **Gas Vents** ☐ Active ☐ Passive ☐ Properly secured/locked ☐ Functioning
☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration
☐ N/A
Remarks_____

2. **Gas Monitoring Probes** ☐ Properly secured/locked ☐ Functioning
☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration
☐ N/A
Remarks_____

3. **Monitoring Wells** (within surface area of landfill) ☐ Properly secured/locked
☐ Functioning ☐ Routinely sampled ☐ Good condition ☒ Needs O&M
☐ Evidence of leakage at penetration ☐ N/A
Remarks O & M on covers, protective casings, and and dedicated sampling equipment required.

4. **Leachate Extraction Wells** ☐ Properly secured/locked ☐ Functioning
☐ Routinely sampled ☐ Good condition ☐ Needs O&M
☐ Evidence of leakage at penetration ☒ N/A
Remarks_____

5. **Settlement Monuments** ☐ Located ☐ Routinely surveyed ☒ N/A
Remarks_____

E. Gas Collection and Treatment

1. **Gas Treatment Facilities**
☐ Flaring ☐ Thermal destruction ☐ Collection for reuse
☐ Good condition ☐ Needs O&M
Remarks_____

2. **Gas Collection Wells, Manifolds and Piping**
☐ Good condition ☐ Needs O&M
Remarks_____

F. Cover Drainage Layer ☐ Applicable ☒ Not applicable

1. **Outlet Pipes Inspected** ☐ Functioning ☐ N/A
Remarks_____

2.	**Outlet Rock Inspected** ☐ Functioning ☐ N/A Remarks_____
G.	**Detention/Sedimentation Ponds** ☐ Applicable ☒ Not applicable
1.	**Siltation** Areal extent_____ Depth_____ ☐ N/A ☐ Siltation not evident Remarks_____
2.	**Erosion** Areal extent_____ Depth_____ ☐ Erosion not evident Remarks_____
3.	**Outlet Works** ☐ Functioning ☐ N/A Remarks_____
4.	**Dam** ☐ Functioning ☐ N/A Remarks_____
H.	**Retaining Walls** ☐ Applicable ☒ Not applicable
1.	**Deformations** ☐ Location shown on site map ☐ Deformation not evident Horizontal displacement_____ Vertical displacement_____ Rotational displacement_____ Remarks_____
2.	**Degradation** ☐ Location shown on site map ☐ Degradation not evident Remarks_____
I.	**Perimeter Ditches/Off-Site Discharge** ☐ Applicable ☒ Not applicable
1.	**Siltation** ☐ Location shown on site map ☐ Siltation not evident Areal extent_____ Depth_____ Remarks_____
2.	**Vegetative Growth** ☐ Location shown on site map ☐ N/A ☐ Vegetation does not impede flow Areal extent_____ Type_____ Remarks_____

3. **Erosion** ☐ Location shown on site map ☐ Erosion not evident
Areal extent_____ Depth_____
Remarks_____

4. **Discharge Structure** ☐ Functioning ☐ N/A
Remarks_____

VII. VERTICAL BARRIER WALLS ☐ Applicable ☒ Not applicable

1. **Settlement** ☐ Location shown on site map ☐ Settlement not evident
Areal extent_____ Depth_____
Remarks_____

2. **Performance Monitoring** Type of monitoring_____
☐ Performance not monitored
Frequency_____ ☐ Evidence of breaching
Remarks_____

VIII. GROUNDWATER/SURFACE WATER REMEDIES ☐ Applicable ☒ Not applicable

A. **Groundwater Extraction Wells, Pumps, and Pipelines**
☐ Applicable ☐ Not applicable

1. **Pumps, Wellhead Plumbing, and Electrical**
☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A
Remarks_____

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition ☐ Needs O&M
Remarks_____

B. **Surface Water Collection Structures, Pumps, and Pipelines**
☐ Applicable ☐ Not applicable

1. **Collection Structures, Pumps, and Electrical**
☐ Good condition ☐ Needs O&M
Remarks_____

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition ☐ Needs O&M
Remarks_____

C. **Treatment System** ☐ Applicable ☒ Not applicable

1. **Treatment Train** (Check components that apply)
☐ Metals removal ☐ Oil/water separation ☐ Bioremediation
☐ Air stripping ☐ Carbon adsorbers
☐ Filters_____ ☐ Others_____
☐ Good condition ☐ Needs O&M
☐ Sampling ports properly marked and functional
☐ Sampling/maintenance log displayed and up to date
☐ Equipment properly identified
☐ Quantity of groundwater treated annually_____
☐ Quantity of surface water treated annually_____
Remarks_____

2. **Electrical Enclosures and Panels** (properly rated and functional) ☐ N/A
☐ Good condition ☐ Needs O&M
Remarks_____

3. **Tanks, Vaults, Storage Vessels** ☐ N/A
☐ Good condition ☐ Proper secondary containment ☐ Needs O&M
Remarks_____

4. **Discharge Structure and Appurtenances** ☐ N/A
☐ Good condition ☐ Needs O&M
Remarks_____

5. **Treatment Building(s)** ☐ N/A
☐ Good condition ☐ Needs repair
☐ Chemicals and equipment properly stored
Remarks_____

6.	**Monitoring Wells** (pump and treatment remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A Remarks_____
D.	**Monitored Natural Attenuation**
1.	**Monitoring Wells** (natural attenuation remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A Remarks_____

IX. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

X. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

The removal action and installation of a cap were effective in removing a significant amount of the source and eliminating exposure pathways to waste. The cap is also minimizing infiltration and contaminant migration. Groundwater monitoring is being conducted to verify its effectiveness. The results of the monitoring program will be discussed in the report.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

No O & M has been conducted at the site since the remedial action. Monitoring wells and dedicated sampling equipment are in need of maintenance and/or repair. An O & M plan for the site should be developed and implemented to ensure long-term protectiveness of the remedy.

C.	**Early Indicators of Potential Remedy Failure**
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. None noted during inspection.
D.	**Opportunities for Optimization**
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. When appropriate the monitoring program can be optimized by reducing the frequency of the sampling and analytical parameter list.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the five-year review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INFORMATION

Site name: Site 8 - Goss Cove Landfill	Date of inspection: April 10, 2001
Location and Region: New London County, CT	EPA ID: CTD980906515
Agency, office or company leading the five-year review: EPA Region I	Weather/temperature: Overcast, 50 degrees

Remedy Includes (Check all that apply)

- ☒ Landfill cover/containment
- ☐ Groundwater pump and treatment
- ☐ Surface water collection and treatment
- ☐ Other At the time of the site inspection, the landfill cover was currently being installed.

☒ Inspection team roster attached ☐ Site map attached

II. INTERVIEWS (Check all that apply)

1. O&M site manager Richard Conant (Name) _____ (Title) 4/10/01 (Date)
   Interviewed ☐ at site ☒ at office ☐ by phone Phone no. (860)694-5176
   Problems, suggestions; ☐ Report attached No problems

2. O&M staff _____ (Name) _____ (Title) _____ (Date)
   Interviewed ☐ at site ☐ at office ☐ by phone Phone no. _____
   Problems, suggestions; ☐ Report attached _____

3. Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency USEPA Region I
Contact K. Keckler (Name) RPM (Title) 4/10/01 (Date) (617) 918-1385 (Phone no.)
Problems; suggestions: ☐ Report attached None provided during inspection.

Agency CTDEP
Contact Mark Lewis (Name) RPM (Title) 4/10/01 (Date) (860) 424-3768 (Phone no.)
Problems; suggestions; ☐ Report attached None provided during inspection.

Agency _____
Contact _____ (Name) _____ (Title) _____ (Date) _____ (Phone no.)
Problems; suggestions; ☐ Report attached _____

Agency _____
Contact _____ (Name) _____ (Title) _____ (Date) _____ (Phone no.)
Problems; suggestions; ☐ Report attached _____

4. Other interviews (optional) ☐ Report attached.

III. ONSITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)

1. **O&M Manual and As-Builts** ☐ Readily available ☐ Up to date ☒ N/A
   ☐ As-builts ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Maintenance Logs ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

2. **Site Specific Health and Safety Plan** ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Contingency plan/emergency response plan ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

3. **O&M and OSHA Training Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

4. **Permits and Service Agreements**
   ☐ Air discharge permit ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Effluent discharge ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Waste disposal, POTW ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Other permits_____ ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

5. **Gas Generation Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

6. **Settlement Monument Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

7. **Groundwater Monitoring Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

8. **Leachate Extraction Records** ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

9. **Discharge Compliance Records**
   ☐ Air ☐ Readily available ☐ Up to date ☒ N/A
   ☐ Water (effluent) ☐ Readily available ☐ Up to date ☒ N/A
   Remarks_____

10. **Daily Access/Security Logs**
☐ Readily available ☐ Up to date ☐ N/A
Remarks_____

IV. O&M COSTS

1. **O&M Organization**
☐ State in-house ☐ Contractor for State
☐ PRP in-house ☐ Contractor for PRP
☐ Other _____

2. **O&M Cost Records**
☐ Readily available ☐ Up to date
☐ Funding mechanism/agreement in place
Original O&M cost estimate_____ ☐ Breakdown attached

Total annual cost by year for review period if available

From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost
From_____To_____ _____ ☐ Breakdown attached
Dates Total cost

3. **Unanticipated or Unusually High O&M Costs During Review Period**
Describe costs and reasons: _____

V. GENERAL SITE CONDITIONS

Whenever possible, actual site conditions should be documented with photographs.

A. Fencing Fence in good condition.

1. Fencing damaged ☐ Location shown on site map ☐ Gates secured ☐ N/A
Remarks_____

B. Site Access

1. Access restrictions, signs, other security measures ☒ Location shown on map ☐ N/A
   Remarks · Fencing provides access restriction.

C. Perimeter Roads

1. Roads damaged ☐ Location shown on site map ☐ Roads adequate ☐ N/A
   Remarks

D. General

1. Vandalism/trespassing ☐ Location shown on site map ☒ No vandalism evident
   Remarks

2. Land use changes onsite ☐ N/A
   Remarks Land currently used for museum.

3. Land use changes offsite ☐ N/A
   Remarks

4. Institutional controls (site conditions imply institutional controls not being enforced) ☐ N/A
   Agency
   Contact _____ _____ _____ _____
   Name Title Date Phone no.
   Problems; suggestions; ☐ Report attached SOPA (Admin) New London Instruction 509018 - Site Use Restrictions (October 2000)

VI. LANDFILL COVERS ☐ Applicable ☐ Not applicable

A. Landfill Surface

1. Settlement (Low spots) ☐ Location shown on site map ☐ Settlement not evident
   Areal extent_____ Depth_____
   Remarks

2. Cracks ☐ Location shown on site map ☐ Cracking not evident
   Lengths_____ Widths_____ Depths_____
   Remarks

3. **Erosion** ☐ Location shown on site map ☐ Erosion not evident
Areal extent_____ Depth_____
Remarks_____

4. **Holes** ☐ Location shown on site map ☐ Holes not evident
Areal extent_____ Depth_____
Remarks_____

5. **Vegetative Cover** ☐ Grass ☐ Cover properly established ☐ No signs of stress
☐ Trees/Shrubs (indicate size and locations on a diagram)
Remarks_____

6. **Alternative Cover (armored rock, concrete, etc.)** ☐ N/A
Remarks_____

7. **Bulges** ☐ Location shown on site map ☐ Bulges not evident
Areal extent_____ Height_____
Remarks_____

8. **Wet Areas/Water Damage** ☐ Wet areas/water damage not evident
☐ Wet areas ☐ Location shown on site map Areal extent_____
☐ Ponding ☐ Location shown on site map Areal extent_____
☐ Seeps ☐ Location shown on site map Areal extent_____
☐ Soft subgrade ☐ Location shown on site map Areal extent_____
Remarks_____

9. **Slope Instability** ☐ Slides ☐ Location shown on site map ☐ No evidence of slope instability
Areal extent_____
Remarks_____

B. **Benches** ☐ Applicable ☐ Not applicable
(Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)

1. **Flows Bypass Bench** ☐ Location shown on site map ☐ N/A or okay
Remarks_____

2. **Bench Breached** ☐ Location shown on site map ☐ N/A or okay
Remarks_____

3. **Bench Overtopped** ☐ Location shown on site map ☐ N/A or okay
Remarks_____

C. **Letdown Channels** ☐ Applicable ☐ Not applicable
(Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)

1. **Settlement** ☐ Location shown on site map ☐ No evidence of settlement
Areal extent_____ Depth_____
Remarks_____

2. **Material Degradation** ☐ Location shown on site map
☐ No evidence of degradation
Material type_____ Areal extent_____
Remarks_____

3. **Erosion** ☐ Location shown on site map ☐ No evidence of erosion
Areal extent_____ Depth_____
Remarks_____

4. **Undercutting** ☐ Location shown on site map ☐ No evidence of undercutting
Areal extent_____ Depth_____
Remarks_____

5. **Obstructions** Type_____ ☐ No obstructions
☐ Location shown on site map Areal extent_____
Size_____
Remarks_____

6. **Excessive Vegetative Growth** Type_____
☐ No evidence of excessive growth
☐ Vegetation in channels does not obstruct flow
☐ Location shown on site map Areal extent_____
Remarks_____

D.	**Cover Penetrations** ☐ Applicable ☐ Not applicable
1.	**Gas Vents** ☐ Active ☐ Passive ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration ☐ N/A Remarks_____
2.	**Gas Monitoring Probes** ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration ☐ N/A Remarks_____
3.	**Monitoring Wells** (within surface area of landfill) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration ☐ N/A Remarks_____
4.	**Leachate Extraction Wells** ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Needs O&M ☐ Evidence of leakage at penetration ☐ N/A Remarks_____
5.	**Settlement Monuments** ☐ Located ☐ Routinely surveyed ☐ N/A Remarks_____
E.	**Gas Collection and Treatment**
1.	**Gas Treatment Facilities** ☐ Flaring ☐ Thermal destruction ☐ Collection for reuse ☐ Good condition ☐ Needs O&M Remarks_____
2.	**Gas Collection Wells, Manifolds and Piping** ☐ Good condition ☐ Needs O&M Remarks_____
F.	**Cover Drainage Layer** ☐ Applicable ☐ Not applicable
1.	**Outlet Pipes Inspected** ☐ Functioning ☐ N/A Remarks_____

2.	**Outlet Rock Inspected** ☐ Functioning ☐ N/A Remarks_____
G.	**Detention/Sedimentation Ponds** ☐ Applicable ☐ Not applicable
1.	**Siltation** Areal extent_____ Depth_____ ☐ N/A ☐ Siltation not evident Remarks_____
2.	**Erosion** Areal extent_____ Depth_____ ☐ Erosion not evident Remarks_____
3.	**Outlet Works** ☐ Functioning ☐ N/A Remarks_____
4.	**Dam** ☐ Functioning ☐ N/A Remarks_____
H.	**Retaining Walls** ☐ Applicable ☐ Not applicable
1.	**Deformations** ☐ Location shown on site map ☐ Deformation not evident Horizontal displacement_____ Vertical displacement_____ Rotational displacement_____ Remarks_____
2.	**Degradation** ☐ Location shown on site map ☐ Degradation not evident Remarks_____
I.	**Perimeter Ditches/Off-Site Discharge** ☐ Applicable ☐ Not applicable
1.	**Siltation** ☐ Location shown on site map ☐ Siltation not evident Areal extent_____ Depth_____ Remarks_____
2.	**Vegetative Growth** ☐ Location shown on site map ☐ N/A ☐ Vegetation does not impede flow Areal extent_____ Type_____ Remarks_____

3. **Erosion** ☐ Location shown on site map ☐ Erosion not evident
Areal extent_____ Depth_____
Remarks_____

4. **Discharge Structure** ☐ Functioning ☐ N/A
Remarks_____

VII. VERTICAL BARRIER WALLS ☐ Applicable ☐ Not applicable

1. **Settlement** ☐ Location shown on site map ☐ Settlement not evident
Areal extent_____ Depth_____
Remarks_____

2. **Performance Monitoring** Type of monitoring_____
☐ Performance not monitored
Frequency_____ ☐ Evidence of breaching
Remarks_____

VIII. GROUNDWATER/SURFACE WATER REMEDIES ☐ Applicable ☐ Not applicable

A. **Groundwater Extraction Wells, Pumps, and Pipelines**
☐ Applicable ☐ Not applicable

1. **Pumps, Wellhead Plumbing, and Electrical**
☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A
Remarks_____

2. **Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition ☐ Needs O&M
Remarks_____

B. **Surface Water Collection Structures, Pumps, and Pipelines**
☐ Applicable ☐ Not applicable

1. **Collection Structures, Pumps, and Electrical**
☐ Good condition ☐ Needs O&M
Remarks_____

2. **Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances**
☐ Good condition ☐ Needs O&M
Remarks_____

C. **Treatment System** ☐ Applicable ☐ Not applicable

1. **Treatment Train** (Check components that apply)
☐ Metals removal ☐ Oil/water separation ☐ Bioremediation
☐ Air stripping ☐ Carbon adsorbers
☐ Filters_____ ☐ Others_____
☐ Good condition ☐ Needs O&M
☐ Sampling ports properly marked and functional
☐ Sampling/maintenance log displayed and up to date
☐ Equipment properly identified
☐ Quantity of groundwater treated annually_____
☐ Quantity of surface water treated annually_____
Remarks_____

2. **Electrical Enclosures and Panels** (properly rated and functional) ☐ N/A
☐ Good condition ☐ Needs O&M
Remarks_____

3. **Tanks, Vaults, Storage Vessels** ☐ N/A
☐ Good condition ☐ Proper secondary containment ☐ Needs O&M
Remarks_____

4. **Discharge Structure and Appurtenances** ☐ N/A
☐ Good condition ☐ Needs O&M
Remarks_____

5. **Treatment Building(s)** ☐ N/A
☐ Good condition ☐ Needs repair
☐ Chemicals and equipment properly stored
Remarks_____

6.	**Monitoring Wells** (pump and treatment remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A Remarks_____
D.	**Monitored Natural Attenuation**
1.	**Monitoring Wells** (natural attenuation remedy) ☐ Properly secured/locked ☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs O&M ☐ N/A Remarks_____

IX. OTHER REMEDIES

If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.

X. OVERALL OBSERVATIONS

A. Implementation of the Remedy

Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).

The engineered cap system is currently being installed and once complete will be effective at eliminating direct exposure to the waste. Cap operation and maintenance and land use controls will ensure effectiveness into the future. In addition, the cap should also minimize contaminant migration from the waste. A groundwater monitoring plan has been developed and will be implemented once construction of the cap is complete.

B. Adequacy of O&M

Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.

The USEPA Region I and CTDEP are doing regular inspections on the progress of the cap during its construction. Their findings are being relayed to the Navy and it's RAC. The issues are addressed in an appropriate manner.

C.	**Early Indicators of Potential Remedy Failure**
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. Not Applicable
D.	**Opportunities for Optimization**
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. Not Applicable

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